

WHAT IS CLAIMED IS:

1. Treatment compositions to remove a plurality of radioactive isotopes and/or heavy metals from water and wastewater comprising:

- (a) 1 to 2% by weight of magnesium silicate
- (b) 15 to 40% of naturally occurring montmorillonite
- (c) 11 to 30% of Indian red potters clay
- (d) 5 to 30% of calcium bentonite
- (e) 5 to 30% of a metal salt
- (f) 5 to 30% of calcium hydroxide
- (g) 2 to 5% of sodium carbonate
- (h) 1 to 5% of hafnium
- (i) 1 to 6% of one or more polyelectrolytes
- (j) 5 to 10% of calcium sulfate
- (k) 1 to 5% of silica gel